

Figure 1

Genewriter - Oligonucleotide Pooling Plan

_	F-A1	F-A2			F-A3			F-A4			F-A5				
• ,		R-A1			R-A2			R-A3			R-A4		R	-A5	
		1	2	3	4	5	6	7	8	9	10	11	12	•	
	A B C	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	E F G H	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
		1	2	3	4	5	6	7	8	9	10	11	12	•	
	A B C D E F G H	Ŏ	\bigcirc			\bigcirc		\bigcirc		\Box		\bigcirc			

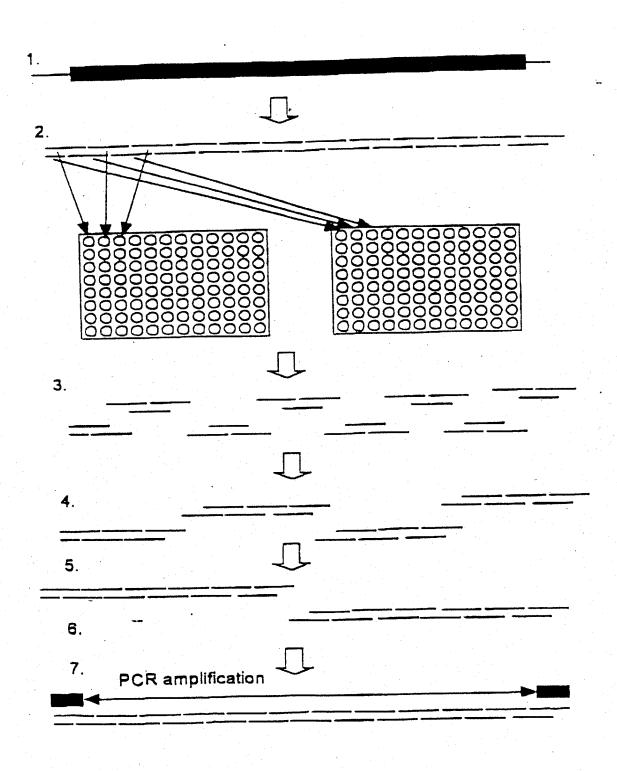


Figure 3

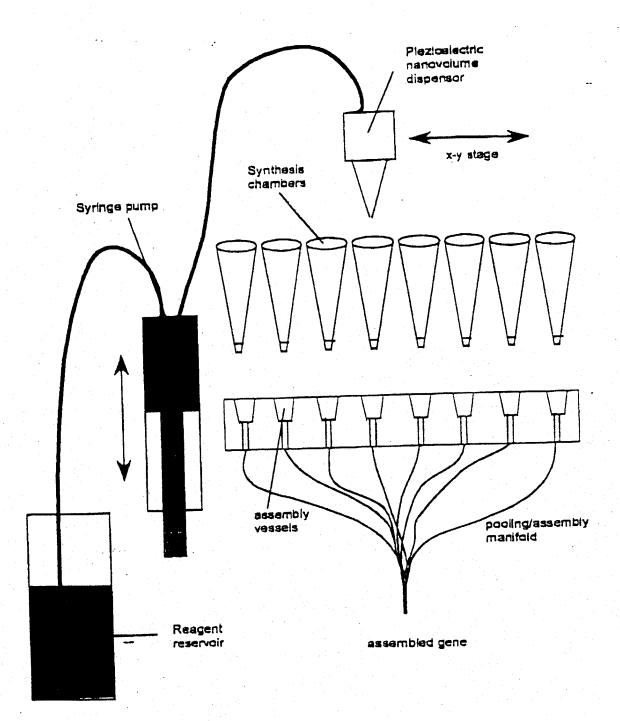


Figure 4

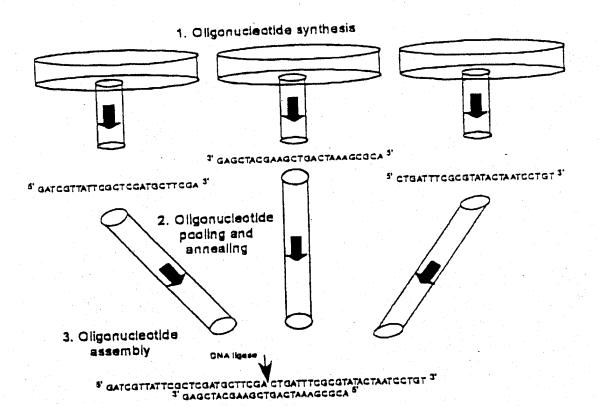
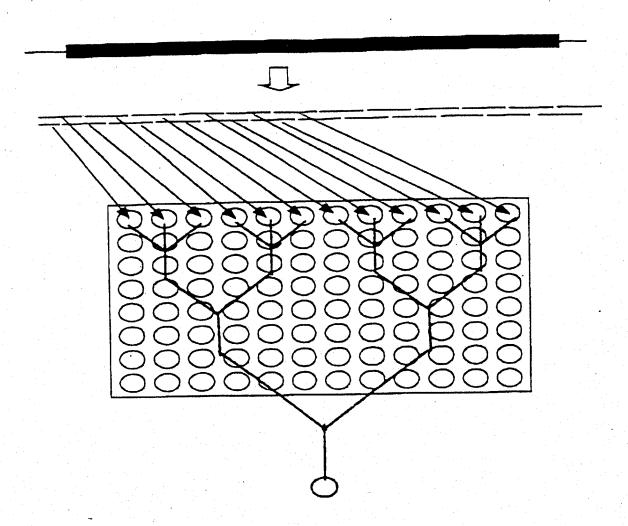
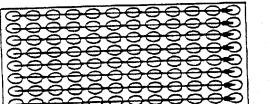


Figure 5





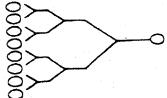


Figure 7

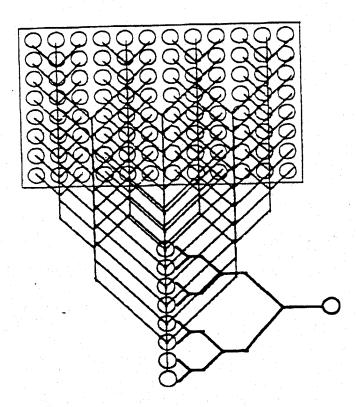


Figure 8

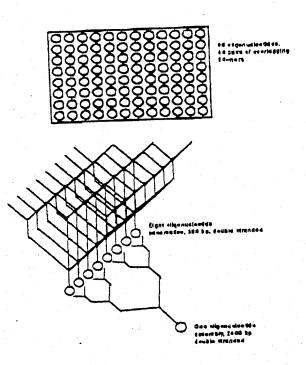


Figure 9

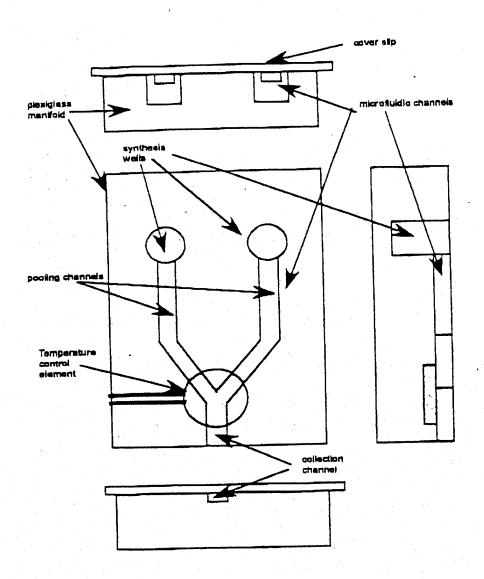
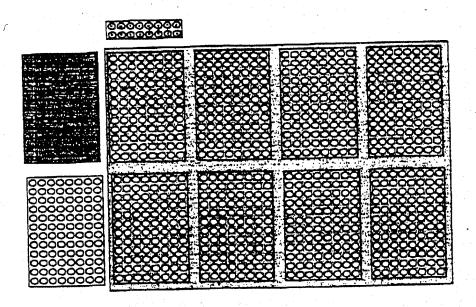


Figure 10

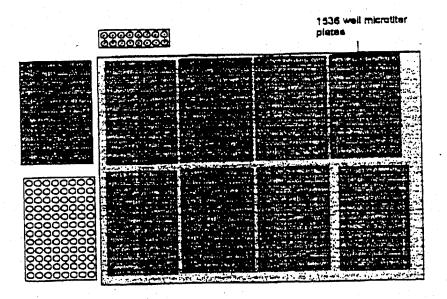
Genewriter Platform Design 8×96 well plates addressed with 16 piezioelectric nanovolume dispense heads; One wash/dry station and one additional plate station. 8 plate evacuated by a single vacuum station.

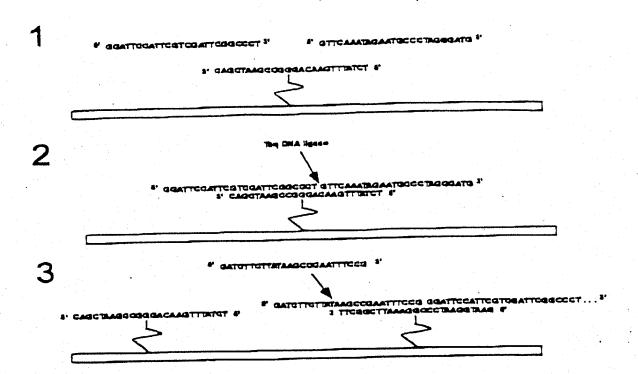
Capacity of 8 x 95 = 788 oligos/run



Genewriter Platform Design - High Capacity Mode 8 x 1536 well microssedy plates addressed with 16 plazipolectric nanovolume dispense heads; One wash/dry station and one additional plate station. 18 plates evacuated by a single vacuum station.

Capacity of 8 x 1636 = 12,256 oligos/run





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Figure 13



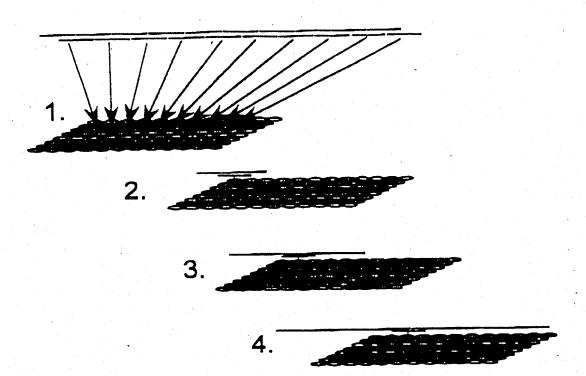
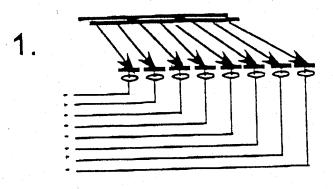
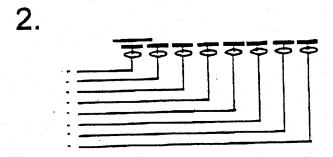


Figure 14





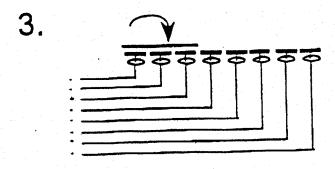


Figure 15

Bidirectional primer extension strategy for gene assembly

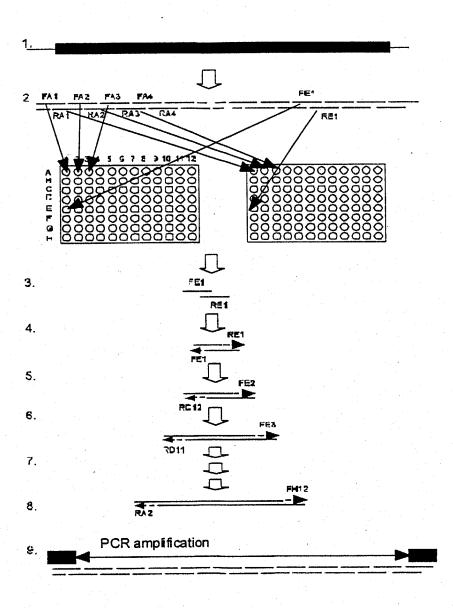


Figure 16

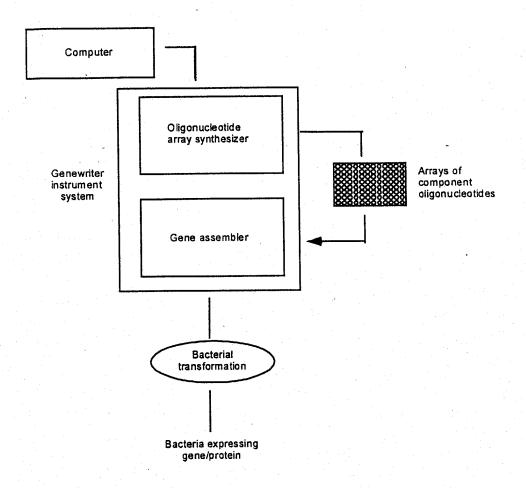


Figure 17

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Perspective view of Genewriter Instrument

Genewriter diagram

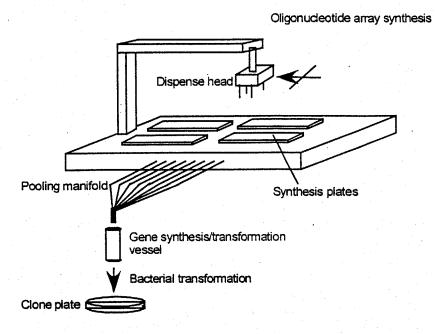
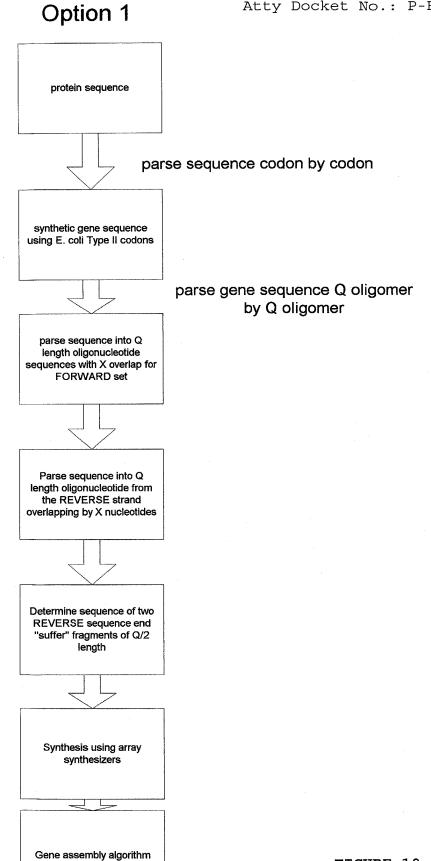


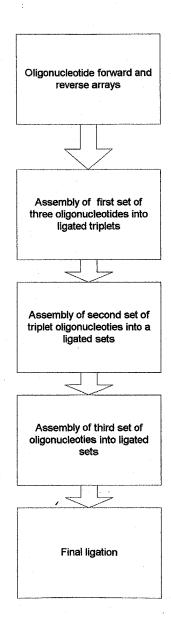
Figure 18

Generation of self-assembling oligonucleotide arrays

Inventor: Glen A. Evans Atty Docket No.: P-EA 4854



Assembly of Self assembling oligonucleotide arrays Option 1



Generation of self-assembling origonucleotide arrays

Inventor: Glen A. Evans Atty Docket No.: P-EA 4854

